

MOTOR DRIVE CIRCUIT FOR POWER TOOL

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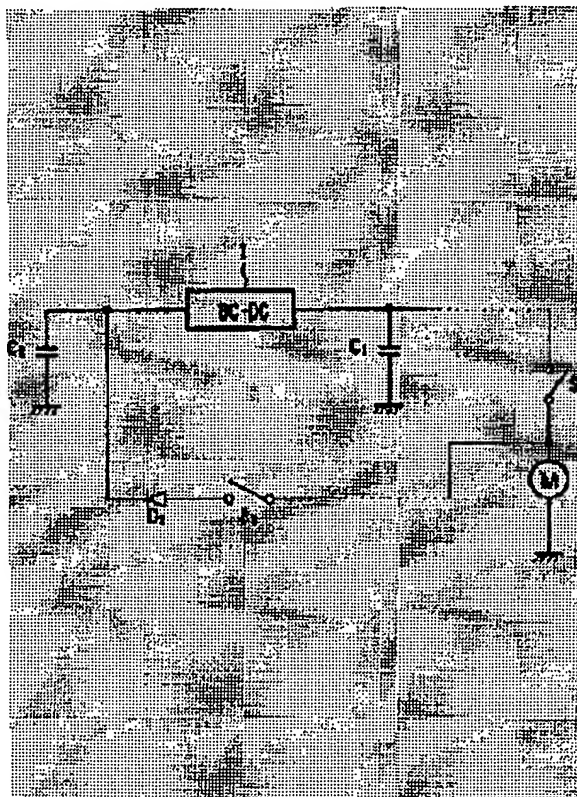
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Abstract of JP2002369405

PROBLEM TO BE SOLVED: To prolong the continuous operating time of a power tool by effectively using the electromotive force, when the motor is braked. **SOLUTION:** A switch S2, a diode D1, and an electrical double-layer capacitor C2, are connected to the positive side power input terminal of the motor M, and the capacitor C2 and a motor drive electrical double-layer capacitor C1 are connected with a DC-to-DC converter 1 between. When a starting switch S1 is turned on, the motor M starts. If a switch S2 is turned on, when the starting switch S1 is turned off, the motor M is braked, and the electromotive force of the motor M is stored in the capacitor C2. Its voltage is increased up to a motor starting voltage or higher by the DC-to-DC converter 1, and charges the capacitor C1.



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